

In The Claims:

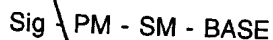
Cancel claims 225-226.

Add new claims 234-258 as follows:

-- 234. (NEW) The nucleotide of claim 204 comprising a deoxyribonucleotide. --

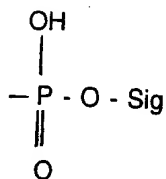
C4 -- 235. (NEW) The nucleotide of claim 204 comprising a ribonucleotide. --

-- 236. (NEW) An oligo- or polynucleotide nucleotide comprising at least one nucleotide having the formula



wherein PM is a phosphate moiety, SM is a sugar moiety and BASE is a pyrimidine, purine or 7-deazapurine moiety, PM being attached to the 3' or the 5' position of the sugar moiety when said nucleotide is a deoxyribonucleotide and at the 2', 3' or 5' position when said nucleotide is a ribonucleotide, BASE being attached to the 1' position of SM from the N<sup>1</sup> position when BASE is a pyrimidine or the N<sup>9</sup> position when BASE is a purine or 7-deazapurine, and Sig is covalently attached to PM directly or via a chemical linkage, said Sig being a detectable moiety when attached to PM. --

-- 237. (NEW) The oligo- or polynucleotide of claim 236 wherein said covalent linkage comprises



-- 238. (NEW) The oligo- or polynucleotide of claim 236 wherein said chemical linkage does not interfere substantially with the characteristic ability of Sig to form a detectable signal. --

-- 239. (NEW) The oligo- or polynucleotide in accordance with claim 236 wherein said nucleotide comprises a deoxyribonucleotide. --

C4 -- 240. (NEW) The oligo- or polynucleotide in accordance with claim 236 wherein said nucleotide comprises a ribonucleotide. --

-- 241. (NEW) The oligo- or polynucleotide of claim 236 wherein Sig is a moiety containing at least three carbon atoms. --

-- 242. (NEW) The oligo- or polynucleotide of claim 236 wherein Sig includes a glycosidic linkage moiety. --

-- 243. (NEW) The oligo- or polynucleotide of claim 236 wherein Sig comprises a component selected from the group consisting of biotin, iminobiotin, an electron dense component, a magnetic component, an enzyme, a hormone component, a radioactive component, a metal-containing component, a fluorescent component, a chemiluminescent component, an antigen, a hapten and an antibody component. --

sub 244. (NEW) The nucleotide of claim 243 wherein said electron dense component comprises ferritin. --

-- 245. (NEW) The oligo- or polynucleotide of claim 243 wherein Sig is complexed with a binding protein therefor, and said binding protein is conjugated to ferritin. --

-- 246. (NEW) The oligo or polynucleotide of claim 243 wherein Sig comprises a magnetic component. --

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-- 247. (NEW) The oligo- or polynucleotide of claim 246 wherein said magnetic component comprises a magnetic oxide. --

-- 248. (NEW) The oligo- or polynucleotide of claim 247 wherein said magnetic oxide is ferric oxide. --

C4  
-- 249. (NEW) The oligo- or polynucleotide of claim 243 wherein Sig comprises an enzyme. --

-- 250. (NEW) The oligo- or polynucleotide of claim 249 wherein said enzyme is selected from the group consisting of alkaline phosphatase, acid phosphatase,  $\beta$ -galactosidase, ribonuclease, glucose oxidase and peroxidase. --

-- 251. (NEW) The oligo- or polynucleotide of claim 243 wherein Sig comprises a radioactive component. --

-- 252. (NEW) The oligo- or polynucleotide of claim 251 wherein said radioactive component is radioactive cobalt. --

-- 253. (NEW) The oligo- or polynucleotide of claim 243 wherein Sig comprises a metal-containing component. --

-- 254. (NEW) The oligo- or polynucleotide of claim 249 wherein said metal-containing component is catalytic. --

-- 255. (NEW) The oligo- or polynucleotide of claim 243 wherein Sig comprises a fluorescent component. --

-- 256. (NEW) The oligo- or polynucleotide of claim 255 wherein said fluorescent component comprises a member selected from the group consisting of fluorescein, rhodamine and dansyl. --

Enz-5(D6)(C2)

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c4 -- 257. (NEW) The oligo or polynucleotide of claim 243 wherein Sig comprises a chemiluminescent component. --

-- 258. (NEW) The oligo or polynucleotide of claim 243 wherein Sig comprises a hapten component capable of complexing with an antibody specific thereto. --

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**In The Abstract of the Disclosure:**

Delete the Abstract and replace with the new substitute Abstract attached hereto as Exhibit A.

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